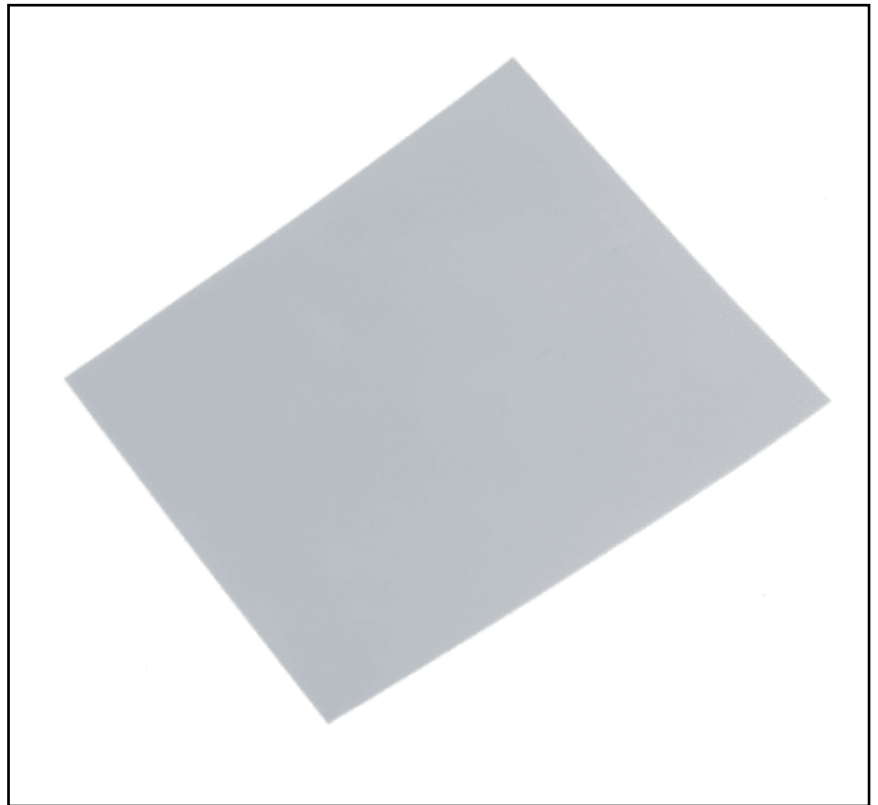


FEATURES

- Ultra-soft
- High compressibility
- Good thermal conductivity
- Compliancy, high compressibility
- Natural tack
- Low oil bleed: long-term stability
- Electrical insulation

Thermal Interface Sheet, Silicone, 8W/m·K, 150 x 150mm 0.5mm

RS Stock No.: 915-6073



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO range of gel type silicone thermal pads which offer high performance and come in a multitude of thermal conductivity ratings and thicknesses. They are ultra-soft and have a natural tack making installation simple and suitable for a wide scope of applications.

Options available:

Silicone gel pad, glass 150x150 mm (glass filled for added performance)

[915-6039](#) - 0.5 mm

[915-6032](#) - 1.0 mm

[915-6036](#) - 1.5 mm

[915-6045](#) - 2.0 mm

Silicone gel pad, 4W/mK, 150x150 mm

[915-6048](#) - 0.5 mm

[915-6042](#) - 1.0 mm

[915-6051](#) - 1.5 mm

[915-6054](#) - 2.0 mm

Silicone gel pad, 6W/mK, 150x150 mm

[915-6058](#) - 0.5 mm

[915-6067](#) - 1.0 mm

[915-6060](#) - 1.5 mm

[915-6064](#) - 2.0 mm

Silicone gel pad, 8W/mK, 150x150 mm

[915-6073](#) - 0.5 mm

[915-6076](#) - 1.0 mm

[915-6070](#) - 1.5 mm

[915-6089](#) - 2.0 mm

General Specifications

Material	Silicone
Self-Adhesive	Yes
Colour	Grey
Applications	Electronics components; Flat panel displays; LED (light emitting diode) displays; Engine control units; Computer hard drives; Wireless communication hardware
Flame Rating	V0 UL94
Shelf Life	24months

Electrical Specifications

Dielectric Strength	>10kV/mm
Dielectric Constant at 1kHz	5
Volume Resistivity	>10 ¹² ohm.cm
Insulation Strength	12kV/mm

Mechanical Specifications

Dimensions	150x150mm
Thickness	0.5mm
Length	150mm
Width	150mm
Diameter	75mm
Thermal Conductivity	8W/(m.K)
Hardness	Shore OO 60
Thermal Impedance	<0.28°C-in ² /W
Specific Gravity	3.4g/cm ³
Weight Loss	<0.4%
Elongation	60%
Tensile Strength	0.1MPa
Density	2.85g/cm ³
Deflection At 10 psi	3%
Young's Modulus	24N/cm ²
Compression Ratio at 1mm, 40psi	20%
Thermal Resistance	0.8W/m.K
Coefficient Of Thermal Expansion	250ppm/K
Dissipation Factor At 1000kHz	0.013

Operation Environment Specifications

Minimum Operating Temperature	-55°C
Maximum Operating Temperature	200°C

Approvals

Compliance/Certifications

CE / UR / cUR

RS Stock Number	Part number	Total thickness	Sheet size
9156073	GCS-080-S-150150-0.5	0.5mm	150x150mm
9156076	GCS-080-S-150150-1.0	1.0mm	150x150mm
9156070	GCS-080-S-150150-1.5	1.5mm	150x150mm
9156089	GCS-080-S-150150-2.0	2.0mm	150x150mm

Characteristic	Test Method	Value
Colour	Visual	Grey
Thickness mm	-	0.5 - 2.0
Density g/cm ³	ASTM D792	3.3
Hardness (Shore 00)	ASTM	60
Application temperature °C	-	-50 - +200
Tensile strength MPa	ASTM D412	0.1
Elongation %	ASTM D412	40
Total mass loss %	ASTM E595	<0.4
Compression		
Deflection@10 psi %	ASTM D575	3
Deflection @20 psi %	ASTM D575	5
Deflection @30 psi %	ASTM D575	10
Deflection @40 psi %	ASTM D575	15
Deflection @50 psi %	ASTM D575	20
Electrical		
Dielectric breakdown kV/mm	ASTM D419	>10
Volume resistivity Ohm-m	ASTM D257	>10 ¹²
Thermal		
Thermal conductivity W/m*K	ASTM D5470	8
Thermal impedance @10 psi °C-In2/W	ASTM D5470	0.24
Thermal impedance @30 psi °C-In2/W	ASTM D5470	0.20
Thermal impedance @50 psi °C-In2/W	ASTM D5470	0.15